TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS

PCT

RAPPORT PRÉLIMINAIRE INTERNATIONAL SUR LA BREVETABILITÉ

(chapitre I du Traité de coopération en matière de brevets)

(règle 44bis du PCT)

Référence du dossier du déposant ou du mandataire S6123 FSMNS	POUR SUITE À DONNER	Voir le point 4 ci-dessous		
Demande internationale no. PCT/FR2004/050105	Date du dépôt international (jour/mois/année) 12 March 2004 (12.03.2004)	Date de priorité (jour/mois/année) 02 April 2003 (02.04.2003)		
Classification internationale des brevets (8 ^e edition, sauf indication d'une #dition ant#rieure) Voir les informations pertinentes dans le formulaire PCT/ISA/237				
Déposant L'AIR LIQUIDE SOCIETE ANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE				

1.	Le présent rapport préliminaire international sur la brevetabilité (chapitre I) est établi par le Bureau international au nom de l'administration chargée de la recherche internationale selon la règle 44bis.1.a).						
2.	Ce RAPPORT comprend un total de 7 feuilles, y compris la présente feuille de couverture.						
	Dans les feuilles jointes, toute référence à l'opinion écrite de l'administration chargée de la recherche internationale doit être entendue, à la place, comme une référence au rapport préliminaire international sur la brevetabilité (chapitre I).						
3.	Le présent rapport contient des indications relatives aux points suivants :						
	Cadre n° I	Base de l'opinion					
	Cadre n° II	Priorité					
	Cadre nº III	Absence de formulation d'opinion quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle					
	Cadre n° IV	Absence d'unité de l'invention					
	Cadre n° V	Déclaration motivée selon l'article 35.2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration					
	Cadre n° VI	Certains documents cités					
	Cadre n° VII	Certaines irrégularités relevées dans la demande internationale					
	Cadre n° VIII	Certaines observations relatives à la demande internationale					
4.	Le Bureau international commu mais pas avant l'expiration du d requête expresse à cet égard en	uniquera le présent rapport aux offices désignés conformément aux règles 44bis.3.c) et 93bis.1 délai de 30 mois à compter de la date de priorité (règle 44bis.2), sauf si le déposant a présenté une vertu de l'article 23.2).					
		Date d'établissement du présent rapport					

	Date d'établissement du présent rapport 02 March 2006 (02.03.2006)
Bureau international de l'OMPI 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Fonctionnaire autorisé Beate Giffo-Schmitt
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Formulaire PCT/IB/373 (janvier 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY						
То:					PCT	
					TITEN OPINION CO	
					(PCT Rule 43bis.1))
				Date of mailing (day/month/year)		
Applican	n's or agent's file reference			FOR FURTHER ACTION		
S612	23 FSMNS				See paragraph 2 below	
l			International filing date (day/month/year)	Priority date (day/mont	
International Patent Classification (IPC) or both national classification and IPC						
	IR LIQUIDE SO VEILLANCE POU					
1.	This opinion contains indic	ations relat	ting to the following items	5.		
	Box No. I B	asis of the	opinion			
	Box No. II P	riority				
Box No. III Non-establishment of opinion with re			shment of opinion with re	regard to novelty, inventive step and industrial applicability		
	Box No. IV L	ack of unit	y of invention			
			atement under Rule 43bis; citations and explanatio			r industrial
	Box No. VI C	Certain docu	uments cited			
	Box No. VII C	Certain defe	ects in the international ap	plication		
	Box No. VIII C	Certain observations on the international application				
2.	FURTHER ACTION					
	If a demand for internati International Preliminary E than this one to be the IPE this International Searching	Examining EA and the	Authority ("IPEA") except chosen IPEA has notified	of that this does not ap If the International Bur	ply where the applicant o	chooses an Authority other
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
	For further options, see For					
3.	For further details, see note	es to Form	PCT/ISA/220.			
		-				
Name a	nd mailing address of the ISA	AJEP		Authorized officer		
Facsimile No.				Telephone No.	· -	

Facsimile No.

International application No.
PCT/FR2004/050105

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
İ		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	litional comments:
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Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty ((N)	Claims	1-21	YES
			Claims		NO
	Inventive	e step (IS)	Claims	-	YES
			Claims	1-21	NO
	Industria	l applicability (IA)	Claims	1-21	YES
			Claims	_	NO
2.	Citations and	d explanations:			
- •	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	1.	Reference	is ma	de to the following documents:	
·	- -			778 (AIR LIQUIDE) 14 December 1994	
1				921 (GUILLARD ALAIN ET AL)	
			ctober		
		D3: US 20	003/03	3832 A1 (MASSIMO GIOVANNI ET AL)	
		20 F	∍bruar	y 2003	
		D4: US-B3	1-6 34	5 517 (JAHNKE FREDERICK C)	
È		12 F	ebruar	y 2002	
	2.	The subject	ct mat	ter of claim 1 is novel but does	
		not invol	ve an	inventive step (PCT Article 33(3)),	
		for the for	ollowi	ng reasons:	
	Document D1, which is considered to be the prior				
		art close	st to	the subject matter of claim 1,	
		describes	(the	references between parentheses	
				e 3 of this document) a similar	
		method fo	r the	provision of gas under pressure, by	
		vaporizat	ion of	a cryogenic liquid from a	
		cryogenic	separ	ration device, this method	
		furthermo	re inc	cluding the steps a) to f) as	
		claimed.			

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Therefore, the subject matter of claim 1 differs from this known method in that at least one other cryogenic separation device is connected in a network to the cryogenic separation device, sharing a single common store of liquid.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem that the present invention is intended to solve can thus be considered to be that of providing large quantities of gas under pressure while reducing investment costs.

A method for the provision of large quantities of gas under pressure comprising two cryogenic separation devices which send liquid to a common store has, however, already been used for the same purpose in a similar method, see D2, figure 4 (or D3). It would therefore be obvious to the person skilled in the art to apply these features with corresponding effect to the method according to document D1, thereby arriving at a method according to claim 1.

The solution, as proposed in claim 1 of the present application, is therefore not considered to be inventive (PCT Article 33(3)).

3. In so far as **claim 12** relating to a device for the provision of gas under pressure can be understood

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

(cf. Box VIII), said claim only defines features of methods of claim 1 by device features. The arguments set forth above apply mutatis mutandis to the subject matter of claim 12 and the subject matter of claim 12 is therefore not inventive either (PCT Article 33(3)).

4. Claims 2 to 11 and 13 to 21 contain features which are partially known from documents D1 and D4 (claims 2 to 7 and 13 to 21) or which relate simply to measures for controlling a cryogenic separation device well known to the person skilled in the art (claims 8 to 11). Therefore, the subject matters of these claims do not contain any additional features which, in combination with the subject matter of any one of the claims on which they depend, would involve an inventive step.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

claim 11 is not supported by the description, as required by PCT Article 6, as its scope is broader than that justified by the description and the drawings, for the following reasons:

According to the description (page 6, line 10), the gas under pressure is provided by an installation comprising at least two cryogenic separation devices whereas said claim also includes the option of a single device.

Therefore, for the assessment of novelty and of inventive step of this claim, it is understood that the installation comprises at least two cryogenic separation devices.